

ABSTRACT

An automotive lamp assembly includes a light source and a hyperbolic reflector positioned to reflect light from the light source. A bifocal lens is positioned in front of the light source and hyperbolic reflector such that it receives light emitted from the light source and light reflected off the reflector. The bifocal lens includes a first portion having a focal point at the light source and a second portion having a focal point at a virtual focus of the reflector. When the light source is energized and emits light, direct light from the light source strikes the first portion of the lens and collimates the light substantially parallel to the optical axis. Light from the reflector strikes the second portion of the lens and is collimated substantially parallel to the optical axis. Altogether, the light passing through the bifocal lens provides a desirable light beam for an automotive vehicle.

INDY 1197933v1